## **ABSTRACT**

An adjustable chromatic dispersion compensator is provided, with the possibility of passive athermalisation. The device includes an optical fiber grating which is fixed on its length to an elongated beam member that has a flexible cantilever portion so that a non-uniform tensile strain induced in the grating reconfigures the group delay response. The chirp of the grating is changed by the bending of the bar, allowing adjustable chromatic dispersion compensation. Adjustment of the central filter wavelength without affecting the grating integrity is further provided. A multimaterial construction allows the package to passively compensate for the natural temperature dependence of the filter resonance wavelength by varying the strain in the fiber in response to changes in the ambient temperature.

10